

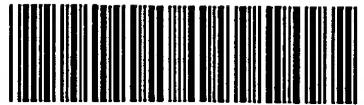
RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/536,809
Source: PCT
Date Processed by STIC: 6/7/05

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PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/536,809

DATE: 06/07/2005
TIME: 11:17:11

Input Set : A:\08959.0011 Sequence Listing.txt
Output Set: N:\CRF4\06072005\J536809.raw

3 <110> APPLICANT: Yamanouchi Pharmaceutical Co., Ltd.
5 <120> TITLE OF INVENTION: Canine CYP1A2 genetic polymorphism
7 <130> FILE REFERENCE: Y0414PCT-712
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/536,809
C--> 9 <141> CURRENT FILING DATE: 2005-05-27
9 <150> PRIOR APPLICATION NUMBER: JP 2003-152917
10 <151> PRIOR FILING DATE: 2003-05-29
12 <150> PRIOR APPLICATION NUMBER: JP 2003-206581
13 <151> PRIOR FILING DATE: 2003-08-07
15 <160> NUMBER OF SEQ ID NOS: 23
17 <170> SOFTWARE: PatentIn version 3.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 1380
21 <212> TYPE: DNA
22 <213> ORGANISM: Canis familiaris
24 <220> FEATURE:
25 <223> OTHER INFORMATION: Inventor: Tenmizu, Daisuke; Fukunaga, Yasuhisa; Noguchi, Kiyoshi
28 <400> SEQUENCE: 1
29 ctggagtctt atgtacccctg tggcaaaaccc tgagatacag agaaaagatcc agaaggagtt 60
31 gggatgcgg tagagatgca caagctaaga gaagcttgag atccccaggt tctttgttca 120
33 atgacatata gctgttgtgt gcctaccatg tgtaagccct gggcatacac tggtgcccac 180
35 ccttccttag aacatgctgg ggtagggtgg ttactgggccc tttagatatat aacagacagt 240
37 actatgtaat aggggactta gataccatga agcagtcggg ggagccctaa gccccgttg 300
39 gtcttcgtg ttctgcagac acgggtattt gcagggcacg gcagcctcgc ctctctgaca 360
41 ggccccagct gcccattatg gaggccttca tcctggagat ttcttgacac accttccttta 420
43 tcccttcac catccccac agttaaggcc tgcttccttgc ttcttgccac cttttagcc 480
45 ttcaccatgt ttcttcctcc catcttctca gcccggatc tggctcagac ctcggcctct 540
47 cacttcgtgc cacgtcacca agttcccttc agccttctgg ctgcccacaa ccaatccaac 600
49 catgatcaa ctaccctagct ttctggagaa agtcacactg ctgtatctcag ctctcattca 660
51 cctctgctca catttcatttc ctgcaagtac tctcaatcca cccgggctgg cctcgctgta 720
53 cctcccccagc atgatgcggc caaccccttcaat ttttgcattt gctggacccctt ctgcctggaa 780
55 tgccttttaa cctcttcctcc caccacctga atcttaccct tgcccaaggt caatcctgac 840
57 acaaacttcc ctttcaactat caggctttct tgactcatcc agctggcaca gcttcattct 900
59 ctgtatgtatt gttaggacttt cagccatttg tccttgatca tggctctggc ttttaacaac 960
61 atcaagagac tttagtgaaca ttactctta cccatatgtt ggtctattta ttcccaaggt 1020
63 agaaggctcg actcctcagt caggctgggactaccagg gataactccag actgccagtt 1080
65 tcttggcttc agaggatggc gaagtgcaca gctggacaca aacaaagggt tagtgaacac 1140
67 ttgtctgaagt tgaagaacag aagctgagga agaggaagga tagtttcacc ccttccgtgc 1200
69 tcctgtatgt ccctccctagt gttaggacata gagactgtgg gggacaagct attgggggtgg 1260
71 aagaaggagc aagtagatcc cagagacaca ccccaagtgtt cctgccttca gcctgacac 1320
73 gccccttcctcc ctcctcagca caacaaaggca cacaacccatca aaggcccttca acatccccaa 1380
76 <210> SEQ ID NO: 2
77 <211> LENGTH: 20

(Pg. 6)

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78 <212> TYPE: DNA
79 <213> ORGANISM: Canis familiaris
81 <400> SEQUENCE: 2
82 cctccaccat cttctgcttg 20
85 <210> SEQ ID NO: 3
86 <211> LENGTH: 20
87 <212> TYPE: DNA
88 <213> ORGANISM: Canis familiaris
90 <400> SEQUENCE: 3
91 atgtcctgga cactgcgctc 20
94 <210> SEQ ID NO: 4
95 <211> LENGTH: 20
96 <212> TYPE: DNA
97 <213> ORGANISM: Canis familiaris
99 <400> SEQUENCE: 4
100 tccccctcct aatgagctcc 20
103 <210> SEQ ID NO: 5
104 <211> LENGTH: 20
105 <212> TYPE: DNA
106 <213> ORGANISM: Canis familiaris
108 <400> SEQUENCE: 5
109 gaggccatgg gtgatccttc 20
112 <210> SEQ ID NO: 6
113 <211> LENGTH: 20
114 <212> TYPE: DNA
115 <213> ORGANISM: Canis familiaris
117 <400> SEQUENCE: 6
118 cctccaccat cttctgcttg 20
121 <210> SEQ ID NO: 7
122 <211> LENGTH: 20
123 <212> TYPE: DNA
124 <213> ORGANISM: Canis familiaris
126 <400> SEQUENCE: 7
127 caatgacatt ggccactgac 20
130 <210> SEQ ID NO: 8
131 <211> LENGTH: 20
132 <212> TYPE: DNA
133 <213> ORGANISM: Canis familiaris
135 <400> SEQUENCE: 8
136 tttggggccg gatttgacac 20
139 <210> SEQ ID NO: 9
140 <211> LENGTH: 20
141 <212> TYPE: DNA
142 <213> ORGANISM: Canis familiaris
144 <400> SEQUENCE: 9
145 gaggccatgg gtgatccttc 20
148 <210> SEQ ID NO: 10
149 <211> LENGTH: 18
150 <212> TYPE: DNA

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Input Set : A:\08959.0011 Sequence Listing.txt
Output Set: N:\CRF4\06072005\J536809.raw

151 <213> ORGANISM: Canis familiaris
153 <400> SEQUENCE: 10
154 ctggagtctt atgtacct 18
157 <210> SEQ ID NO: 11
158 <211> LENGTH: 18
159 <212> TYPE: DNA
160 <213> ORGANISM: Canis familiaris
162 <400> SEQUENCE: 11
163 ccaactggttt atgaagac 18
166 <210> SEQ ID NO: 12
167 <211> LENGTH: 19
168 <212> TYPE: DNA
169 <213> ORGANISM: Canis familiaris
171 <400> SEQUENCE: 12
172 tgcccttaat ggaggcctt 19
175 <210> SEQ ID NO: 13
176 <211> LENGTH: 20
177 <212> TYPE: DNA
178 <213> ORGANISM: Canis familiaris
180 <400> SEQUENCE: 13
181 acgacacccc ctaccactc 20
184 <210> SEQ ID NO: 14
185 <211> LENGTH: 20
186 <212> TYPE: DNA
187 <213> ORGANISM: Canis familiaris
189 <400> SEQUENCE: 14
190 ttcatcctgg agatcttcgg 20
193 <210> SEQ ID NO: 15
194 <211> LENGTH: 20
195 <212> TYPE: DNA
196 <213> ORGANISM: Canis familiaris
198 <400> SEQUENCE: 15
199 aattggaggt tgaccgcata 20
202 <210> SEQ ID NO: 16
203 <211> LENGTH: 20
204 <212> TYPE: DNA
205 <213> ORGANISM: Canis familiaris
207 <400> SEQUENCE: 16
208 ttcatcctgg agatcttcgt 20
211 <210> SEQ ID NO: 17
212 <211> LENGTH: 20
213 <212> TYPE: DNA
214 <213> ORGANISM: Canis familiaris
216 <400> SEQUENCE: 17
217 cccggtttgg tcttctgtgt 20
220 <210> SEQ ID NO: 18
221 <211> LENGTH: 20
222 <212> TYPE: DNA
223 <213> ORGANISM: Canis familiaris

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Input Set : A:\08959.0011 Sequence Listing.txt
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225 <400> SEQUENCE: 18
226 tgacgtggcc agaagtgaga 20
229 <210> SEQ ID NO: 19
230 <211> LENGTH: 44
231 <212> TYPE: RNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Description of Artificial Sequence: an artificially synthesized
236 GeneRacer RNA Oligo
238 <400> SEQUENCE: 19
239 cgacuggaggc acgaggacac ugacauggac ugaaggagu aaaa 44
242 <210> SEQ ID NO: 20
243 <211> LENGTH: 23
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Description of Artificial Sequence: an artificially synthesized
249 GeneRacer 5' primer
251 <400> SEQUENCE: 20
252 cgactggaggc acgaggacac tga 23
255 <210> SEQ ID NO: 21
256 <211> LENGTH: 24
257 <212> TYPE: DNA
258 <213> ORGANISM: Canis familiaris
260 <400> SEQUENCE: 21
261 ggactcttca ggccttggg aagc 24
264 <210> SEQ ID NO: 22
265 <211> LENGTH: 1638
266 <212> TYPE: DNA
267 <213> ORGANISM: Canis familiaris
269 <220> FEATURE:
270 <221> NAME/KEY: CDS
271 <222> LOCATION: (63)..(1601)
272 <223> OTHER INFORMATION:
W--> 275 <400> 22
276 agctctgtac cagcctccac aatcctactg atctcaagct cctgcctcta cagttgatac 60
278 ag atg gca ttg tcc cag atg gcc aca gag ctt ctc ctg gcc tcc acc 107
279 Met Ala Leu Ser Gln Met Ala Thr Glu Leu Leu Ala Ser Thr
280 1 5 10 15
282 atc ttc tgc ttg gta ctc tgg gtc aag gcc tgg cag cct cgg ctt 155
283 Ile Phe Cys Leu Val Leu Trp Val Val Lys Ala Trp Gln Pro Arg Leu
284 20 25 30
286 ccc aaa ggc ctg aag agt cca ccg ggg ccc tgg ggc tgg ccc ctg ctc 203
287 Pro Lys Gly Leu Lys Ser Pro Pro Gly Pro Trp Gly Trp Pro Leu Leu
288 35 40 45
290 ggg aac gtg ctg acc ttg ggc aag agc ccc cac ctg gcg ctg tcc agg 251
291 Gly Asn Val Leu Thr Leu Gly Lys Ser Pro His Leu Ala Leu Ser Arg
292 50 55 60
294 ctg agc cag cgt tat ggg gac gtg ctg cag atc cgc atc ggc tcc acc 299

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295	Leu	Ser	Gln	Arg	Tyr	Gly	Asp	Val	Leu	Gln	Ile	Arg	Ile	Gly	Ser	Thr	
296	65							70				75					
298	ccc	gtg	ctg	gtg	ctc	agt	ggc	ctg	gac	acc	atc	cg	cag	gcc	ctg	gtg	347
299	Pro	Val	Leu	Val	Leu	Ser	Gly	Leu	Asp	Thr	Ile	Arg	Gln	Ala	Leu	Val	
300	80							85				90			95		
302	cgc	cag	ggg	gat	gat	ttc	aag	ggc	cg	ccc	gac	ctc	tac	agc	ttc	tct	395
303	Arg	Gln	Gly	Asp	Asp	Phe	Lys	Gly	Arg	Pro	Asp	Leu	Tyr	Ser	Phe	Ser	
304								100			105			110			
306	ctg	gtg	acc	gac	ggc	caa	agc	ctg	acc	ttc	agc	cca	gac	tcc	gga	cca	443
307	Leu	Val	Thr	Asp	Gly	Gln	Ser	Leu	Thr	Phe	Ser	Pro	Asp	Ser	Gly	Pro	
308								115			120			125			
310	gtg	tgg	gct	g	cg	cg	agg	cg	ctg	g	cag	aa	gc	ctc	aa	cc	ttc
311	Val	Trp	Ala	Ala	Arg	Arg	Arg	Leu	Ala	Gln	Asn	Ala	Leu	Asn	Thr	Phe	
312								130			135			140			
314	tcc	att	gcc	tcc	gac	ccg	gct	tcc	tcg	tgc	tct	tgc	tac	ctg	gaa	gag	539
315	Ser	Ile	Ala	Ser	Asp	Pro	Ala	Ser	Ser	Cys	Ser	Cys	Tyr	Leu	Glu	Glu	
316								145			150			155			
318	cat	gtg	agc	aag	gag	ggc	gag	ggc	ctt	ctc	agc	agg	ctg	cag	gag	cag	587
319	His	Val	Ser	Lys	Glu	Ala	Glu	Ala	Leu	Leu	Ser	Arg	Leu	Gln	Glu		
320	160							165			170			175			
322	atg	gca	gag	gtt	ggg	cg	ttt	gat	ccc	tac	aa	ca	gt	ctg	atg	tca	635
323	Met	Ala	Glu	Val	Gly	Arg	Phe	Asp	Pro	Tyr	Asn	Gln	Val	Leu	Met	Ser	
324								180			185			190			
326	gtg	gcc	aat	gtc	att	ggt	gca	atg	tgc	ttt	ggg	ca	ca	tcc	tct	cag	683
327	Val	Ala	Asn	Val	Ile	Gly	Ala	Met	Cys	Phe	Gly	His	His	Phe	Ser	Gln	
328								195			200			205			
330	aga	ag	gag	gaa	atg	ctc	ccc	ctc	cta	atg	agc	tcc	agt	gat	ttt	gtg	731
331	Arg	Ser	Glu	Glu	Met	Leu	Pro	Leu	Leu	Met	Ser	Ser	Ser	Ser	Asp	Phe	Val
332								210			215			220			
334	gag	acc	gtc	tcc	aa	ggg	aa	ccg	gt	gac	ttt	ttc	ccc	att	ctc	caa	779
335	Glu	Thr	Val	Ser	Asn	Gly	Asn	Pro	Val	Asp	Phe	Phe	Pro	Ile	Leu	Gln	
336								225			230			235			
338	tat	atg	ccc	aa	tca	ggc	ctg	cag	aga	ttc	aag	aa	cc	ttc	aa	cag	827
339	Tyr	Met	Pro	Asn	Ser	Ala	Leu	Gln	Arg	Phe	Lys	Asn	Phe	Asn	Gln	Thr	
340	240							245			250			255			
342	tcc	gt	c	tcc	cag	aaa	att	gtc	cag	gaa	cac	tat	caa	gac	ttt		875
343	Phe	Val	Gln	Ser	Leu	Gln	Lys	Ile	Val	Gln	Glu	His	Tyr	Gln	Asp	Phe	
344								260			265			270			
346	gat	gag	cg	cg	agt	gtc	cag	gac	atc	aca	ggc	ggc	ctc	ttt	aag	cac	923
347	Asp	Glu	Arg	Ser	Val	Gln	Asp	Ile	Thr	Gly	Ala	Leu	Leu	Lys	His	Asn	
348								275			280			285			
350	gag	aag	agc	tcc	agg	gt	agt	gat	ggc	ca	cc	ca	gg	aag	att		971
351	Glu	Lys	Ser	Ser	Arg	Ala	Ser	Asp	Gly	His	Ile	Pro	Gln	Glu	Lys	Ile	
352								290			295			300			
354	gtc	aa	ctt	atc	aa	cc	gac	att	ttt	ggg	gg	ttt	gac	act	gtc	aca	1019
355	Val	Asn	Leu	Ile	Asn	Asp	Ile	Phe	Gly	Ala	Gly	Phe	Asp	Thr	Val	Thr	
356								305			310			315			
358	acg	gcc	att	tcc	tgg	agt	ctt	atg	tac	ctt	gt	gca	aa	cct	gag	ata	1067
359	Thr	Ala	Ile	Ser	Trp	Ser	Leu	Met	Tyr	Leu	Val	Ala	Asn	Pro	Glu	Ile	

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/07/2005
PATENT APPLICATION: US/10/536,809 TIME: 11:17:12

Input Set : A:\08959.0011 Sequence Listing.txt
Output Set: N:\CRF4\06072005\J536809.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:22; Xaa Pos. 415,433,435
Seq#:23; Xaa Pos. 415,433,435

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/536,809

DATE: 06/07/2005

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Input Set : A:\08959.0011 Sequence Listing.txt
Output Set: N:\CRF4\06072005\J536809.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:275 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:22,Line#:272
L:379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:1307
M:341 Repeated in SeqNo=22
L:533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:400
M:341 Repeated in SeqNo=23